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10/609,348	06/27/2003	Fred W. Balsiger	13768.409	8232

47973 7590 12/31/2007	**EXAMINER**
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ART UNIT	PAPER NUMBER
2192	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No.	Applicant(s)
	10/609,348	BALSIGER ET AL.
	Examiner	Art Unit
	Isaac T. Tecklu	2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *12 October 2007*.
2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-43* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) *1-43* is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a) ☐ All b) ☐ Some * c) ☐ None of:
        1. ☐ Certified copies of the priority documents have been received.
        2. ☐ Certified copies of the priority documents have been received in Application No. _____.
        3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to the Request for Continued Examination filed on 10/12/07.

2.   Claims 1-3, 6-7, 9-11 and 13-14 have been amended.

3.   Claims 1-43 have been reexamined.

Continued Examination Under 37 CFR 1.114

4.   A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 10/12/2007 has been entered.

Applicant's arguments with respect to claims 1-43 have been considered but are moot in

view of the new ground(s) of rejection. See Johnston, Jr. et al. U.S 6,104,391 applied hereto.

Claim Objections

5.   Claim 33 is objected to because of the following informalities: As recited claim 33

depends on claim 33 instead of claim 32. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7.   Claims 1-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Johnston (US 6,104,391).

        As per claim 1 (Currently Amended), Johnston discloses in a computer system that supports a visual user interface development (e.g. FIG. 11 and related text), a method of centrally managing user interface state information for the visual user interface development tool (e.g. FIG. 4 and related text) such that behavior for one or more user interface components or the visual user interface development tool itself may be defined dynamically at development time (e.g. Fig. 2D-2E and related text), the method comprising acts of:
        receiving a message generated within the visual user interface development tool (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 14, 120 and);
        sending the message to be checked against a centralized extensible behavior stack for one or more behaviors to use in processing the message (col. 10: 20-25 "... change the appearance or behavior of a single item in the menu ..." and col. 21:55-65 "... abstracting appearance and behavior of a user interface from its functionality ..." and e.g. FIG. 14, 122 and related text);
        checking the centralize extensible d behavior stack containing currently available behaviors for processing messages to determine if a behavior is available (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6, Q2 and related text); and
        if a behavior is available on the centralized extensible behavior stack, then passing the message to the available behavior for processing (col. 5:1-15 "... capability to alter the appearance and behavior of object and object parts ..." and e.g. FIG. 15, 128 –136 and related text)).

As per claim 2 (Currently Amended), Johnston discloses a method as recited in claim 1, wherein the behavior is available on the centralized <u>extensible</u> behavior stack, and wherein the behavior is associated with the visual user interface development tool, as opposed to an individual user interface component within the visual user interface development tool (e.g. FIG. 4, 50 and related text).

As per claim 3 (Currently Amended), Johnston discloses a method as recited in claim 1, wherein the behavior is available on the centralized <u>extensible</u> behavior stack (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6, Q2 and related text), and wherein the behavior is associated with an individual user interface component within the visual user interface development tool, as opposed to the visual user interface development tool itself (col. 9:1-10 "... each behavior is associated with ..." and e.g. Figure 3 and related text).

As per claim 4, Johnston discloses a method as recited in claim 3, wherein the individual user interface component comprises a third party component developed separately from the visual user interface development tool (col. 11:10-25 "... graphic subsystem is used by the system to draw the pattern ..." and e.g. Figure 3,30 and related text).

As per claim 5, Johnston discloses a method as recited in claim 3, wherein the behavior comprises asking the individual user interface component for any glyphs that are part of the individual user interface component (e.g. FIG. 5 and related text).

As per claim 6, Johnston discloses a method as recited in claim 1, further comprising acts of: receiving the behavior from a component within the visual user interface development tool during development time; and pushing the behavior on the centralized behavior stack (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text).

As per claim 7 (Currently Amended), Johnston discloses a method as recited in claim 1, wherein no behavior is available on the centralized <u>extensible</u> behavior stack for processing the message, the method further comprising an acts of: checking for a successfully hit tested glyph with a corresponding glyph behavior for the message (col. 10: 20-25 "... change the appearance or behavior of a single item in the menu ..." and col. 21:55-65 "... abstracting appearance and behavior of a user interface from its functionality ..." and e.g. FIG. 14, 122 and related text).

As per claim 8, Johnston discloses a method as recited in claim 1, further comprising an act of receiving one or more glyphs with corresponding glyph behavior from a component within the visual user interface development tool during development time, wherein each of the one or more glyphs is capable of hit testing and painting itself (e.g. FIG. 5 and related text).

As per claim 9, this is the program product version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 10, this is the program product version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 11, Johnston discloses a computer program product as recited in claim 9, the method further comprising acts of: receiving the behavior from a component within the visual user interface development tool during development time; and pushing the behavior on the centralized behavior stack (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text).

As per claim 12, Johnston discloses a computer program product as recited in claim 11, wherein the behavior corresponds to a particular action either being performed or to be performed on a user interface component within the visual user interface development tool, the method further comprising an act of popping the behavior off the centralized behavior stack when the particular action is completed (e.g. FIG. 7 and related text).

As per claim 13, Johnston discloses a computer program product as recited in claim 12, wherein the centralized behavior stack enforces the existence of a single state for the particular action (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text).

As per claim 14, this is the program product version of the claimed method discussed above (Claim 7), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 15, this is the program product version of the claimed method discussed above (Claim 8), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 16, Johnston discloses computer program product as recited in claim 9 wherein the visual user interface development tool comprises an adorner window that intercepts all messages directed to the visual user interface development tool (e.g. FIG. 5 and related text).

As per claim 17, Johnston discloses a computer program product as recited in claim 16, wherein the one or more glyphs are organized into one or more adorner layers (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text).

As per claim 18, Johnston discloses a computer program product as recited in claim 17, the method further comprising an act of disabling at least one of the one or more adorner layers (e.g. FIG. 5 and related text).

As per claim 19, this is method version of the claimed the program product discussed above (Claim 9), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 20, this is method version of the claimed the program product discussed above (Claim 10), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 21, Johnston discloses a method as recited in claim 19, further comprising: an act of receiving the behavior from a component within the visual user interface development tool during development time; and a step for adding the behavior to the extensible behavior store (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text).

As per claim 22, this is method version of the claimed the program product discussed above (Claim 14), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 23, Johnston discloses a method as recited in claim 22, wherein no successfully hit test glyph with corresponding glyph behavior is available for the message (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 5 and related text).

As per claim 24, this is method version of the claimed the program product discussed above (Claim 15), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 25, Johnston discloses method as recited in claim 19, wherein the message comprises one of a user event, a mouse message, and a keyboard message (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 14, 120 and).

As per claim 26, Johnston discloses a method as recited in claim 19, wherein the centralized and extensible behavior store contains all currently available behaviors (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 14, 120 and).

As per claim 27, this is computer program version of the claimed the method discussed above (Claim 19), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 28, this is computer program version of the claimed the method discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 29, this is computer program version of the claimed the method discussed above (Claim 21), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 30, this is computer program version of the claimed the method discussed above (Claim 22), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 31, Johnston discloses a computer program product as recited in claim 27, wherein the behavior defines a new custom behavior previously unavailable within the visual user interface designer (e.g. FIG. 7 and related text).

As per claim 32, this is computer program version of the claimed the method discussed above (Claim 24), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Johnston.

As per claim 33, Johnston discloses a computer program product as recited in claim 32, wherein the one or more glyphs are organized into one or more adorner layers (e.g. FIG. 5 and related text).

As per claim 34, Johnston discloses a computer program product as recited in claim 33, the method further comprising an act of disabling at least one of the one or more adorner layers (e.g. FIG. 5 and related text).

As per claim 35, Johnston discloses a computer program product as recited in claim 32, wherein the one or more glyphs comprise at least one custom glyph for the component (e.g. FIG. 5 and related text).

As per claim 36, Johnston discloses a computer program product as recited in claim 32, wherein the message corresponds to at least one of a hit test message and a paint message (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 14, 120 and).

As per claim 37 (Currently Amended), Johnston discloses a computer program product comprising one or more computer readable media carrying computer executable instructions that centralizes component behavior for a visual user interface development tool and permits a component to define at development time one or more custom behaviors that are specific to the component itself or applicable the visual user interface development tool, the computer executable instructions comprising:

an extensible behavior stack that contains one or more development time specified behaviors for the visual user interface development tool or a component within the visual user interface development tool (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6 and related text);

a extensible collection of one or more adorners, each containing one or more development time specified glyphs capable hit testing and painting themselves, wherein at least one of the one or more glyphs includes a reference to a glyph behavior to invoke when a successful hit test has been determined (col. 10:25-40 "... if the menu item ... behavior has

been customized ... then the theme's menu drawing ..." and e.g. FIG. 6, Q2 and related text); and

a message router that routes one or more received messages generated in response to user input within a visual user the visual interface development tool to either the extensible behavior stack or the extensible collection of one or more adorners (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 14, 120 and).

As per claim 38, Johnston discloses a computer program product as recited in claim 37, the computer executable instructions further comprising an adorner window that intercepts one or more messages directed to the visual user interface development tool (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6, Q2 and related text).

As per claim 39, Johnston discloses a computer program product as recited in claim 37, wherein the message router routes a received user event message, a received mouse message, or a received keyboard message to the extensible behavior stack (paragraph [0030] "... using a drag-and-drop ..." and paragraph [0068] "... decrease in size and moved ..." and paragraph [0059] "... selected glyph ...").

As per claim 40, Johnston discloses a computer program product as recited in claim 37, wherein the message router routes a received a received hit test message or a received paint message to the extensible collection of one or more adorners (e.g. FIG. 5 and related text).

As per claim 41, Johnston discloses a computer program product as recited in claim 37, wherein the one or more adorners organize the one or more development time specified glyphs into layers which can be independently disabled and enabled (col. 10:25-40 "... if the menu item ... behavior has been customized ... then the theme's menu drawing ..." and e.g. FIG. 6, Q2 and related text).

As per claim 42, Johnston discloses a computer program product as recited in claim 37, wherein the component within the visual user interface development tool comprises a third party component developed separately from the visual user interface development tool (e.g. FiG. 3 and related text).

As per claim 42 (New), Johnston discloses a method as recited in claim 1, wherein the dynamically defined behavior is directly related to at least one functionality of the interface component selected from the group comprising: dragging an object, resizing an object, and selecting an object (col. 25:15-25 "... messages 120 are sent to the appearance ..." and e.g. FIG. 5 and).

Response to Arguments

8.   Applicant's arguments with respect to claims 1-43 have been considered but are moot in view of the new ground(s) of rejection. See Johnston, art made of record.

Conclusion

9.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac T. Tecklu whose telephone number is (571) 272-7957. The examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Isaac Tecklu
Art Unit 2192
December 11, 2007

TUAN DAM
SUPERVISORY PATENT EXAMINER